NAVSEA TMDE ACQUISITION Program

TMDE PROGRAM OBSTACLES

- Expired TMDE contracts
- No central clearinghouse for test equipment
  - ISEAs procuring own test equipment
  - Incomplete LCS
  - TYCOM/SPM model introduction
- Industry driven vs. performance requirements driven
- No systematic retirement plan
  - ORTEC un-funded
  - No communication between acquisition, technical, and allowancing

TMDE PROGRAM OBSTACLES

IMPACTS

- GPETE Acquisition Process not in sync with Prime System Acquisition
- Model/Equipment proliferation-Range/Depth
  - Example: 100mhz Oscilloscope/21 models/3541 units
- Schoolhouse/Shore infrastructure not in sync with shipboard configurations
- LCS cost not considered
- Deficiencies based acquisition vice planned requirements
- No supportability standardization

TMDE TWELVE STEP PROGRAM

1. Drivers
2. Requirements Determination
3. Parametric/Performance Requirements
4. Industry Matrix
5. Allowancing
6. TMDE Specification
7. Calibration Support Plan
8. Procurement Contract Award
9. Financial Data
10. POM/PR Process
11. CINC Review
12. Procurement Execution

1. PROCESS DRIVERS

- RM&A
- Obsolescence
- Performance
- Proliferation
- DMS
- Cost of Support
- End of Production
- Prime System/Equipment Mods
- New Requirement
- Emergent and unplanned requirements

2. REQUIREMENTS DETERMINATION

- Lead: PHD/Support: Seal Beach/NWAS
- Determine Prime System/Equipment Measurement & performance requirements
  - Contact ISEAs/PARMS/Fleet
  - Review Technical Data Requirements (MRCs/TMs)
  - Information collected in database
  - Performance and Measurement D/B developed
  - NWAS-Calibration Support Plan by Measurement Discipline

3. PARAMETRIC/PERFORMANCE REQUIREMENTS

- Lead: PHD/SUPPORT: Sealbeach & NWAS
- Establish Logical Groupings
  - Inventory Review
  - Prime System (PS) Maintenance Requirement Grouping
  - Measurement Discipline (SCAT) Grouping
  - Document Relationship of PS to SCAT to Model

4. INDUSTRY MATRIX

- Lead: Seal Beach
- Technology
- Options
- Projected per unit costs
- Availability
- Production life

5. ALLOWANCING

- Lead: Earle/SUPPORT: PHD
- Number of installed Prime Systems/Equipment
- Location
- Periodicity of use
- Cost
- Portability
- Allowance Optimization

5A. ALLOWANCE OPTIMIZATION

- Lead: Earle/SUPPORT: PHD
- Consider SURFMER impact
- Review Essential PMS and Corrective Maintenance during deployment
- If frequency is greater than (6) months leave on Shore
- Greater use of floating loan pools
- Probability of requirement during deployment
- Mean time between failure of prime and support equipment
- Consider fixed allowance per class/platform

6. TMDE SPECIFICATION

- Lead: Seal Beach/Support: NWAS & PHD

- Measurement
- Performance
- ILS
  - Maintenance Planning
  - Training
  - Tech Data
  - Calibration Support

7. CALIBRATION SUPPORT PLAN

- Lead: NWAS/SUPPORT: PHD
- Supportability of measurement discipline
- Where to calibrate
- Number of standards to buy
- Cost to field
- ICP development/Initial Interval
- Training

8. PROCUREMENT CONTRACT AWARD

- Lead: NAVICP/SUPPORT: PHD
- Proposal evaluation
- Bid Sample Test
- Production Lot Testing
- Modifications
- Award

9. FINANCIAL DATA

- Lead: PHD/Support: All
- Range and Depth
- Data points
  - MOCC/MEASURE 21
  - CDMD-OA
- LCS costs and ROI

10. POM/PR PROCESS

- Lead: NAVSEA 04L52/SUPPORT: PHD
- CINC Review
- CINC prioritization and endorsement
- Sponsor submittals/briefs
- Control numbers established

11. CINC REVIEW

- Adjustments based on:
  - Controls
  - Changing priorities

12. PROCUREMENT EXECUTION

- Lead: PHD/SUPPORT: NAVICP
- Drop requisitions
- Deploy
- Support
- Retire old model

STANDARDIZATION POA&M

The TMDE ISEA will complete standardization planning for the following families of GPETE in Calendar Year 2001

- Oscilloscopes➔ 3/31/01
- Digital Multi-Meters➔ 6/31/01
- Counter Timers➔ 8/31/01
- Base Band Generators➔ 10/31/01
- Signal Generators➔ 12/31/01

Acquisition Process

	03	04	05	06	07	08	09	10	11
100 MHz OSCOPES									
200 MHz OSCOPES									
500 MHz OSCOPES									
Digital Multi-Meters									
Counter Timers									
Base Band Generators									

OSCILLOSCOPES STANDARDIZATION

PHASE IN PLAN

- 100MHz - Inventory 3541 (SCAT 4308, Model 3012)

  03 Replace Qty 1000

  04 Replace Qty 1000

  05 Replace Qty 1541

200MHz - Inventory 1030 (SCAT 4312, Model 199)

  FY03 Replace Qty 300

  FY04 Replace Qty 300

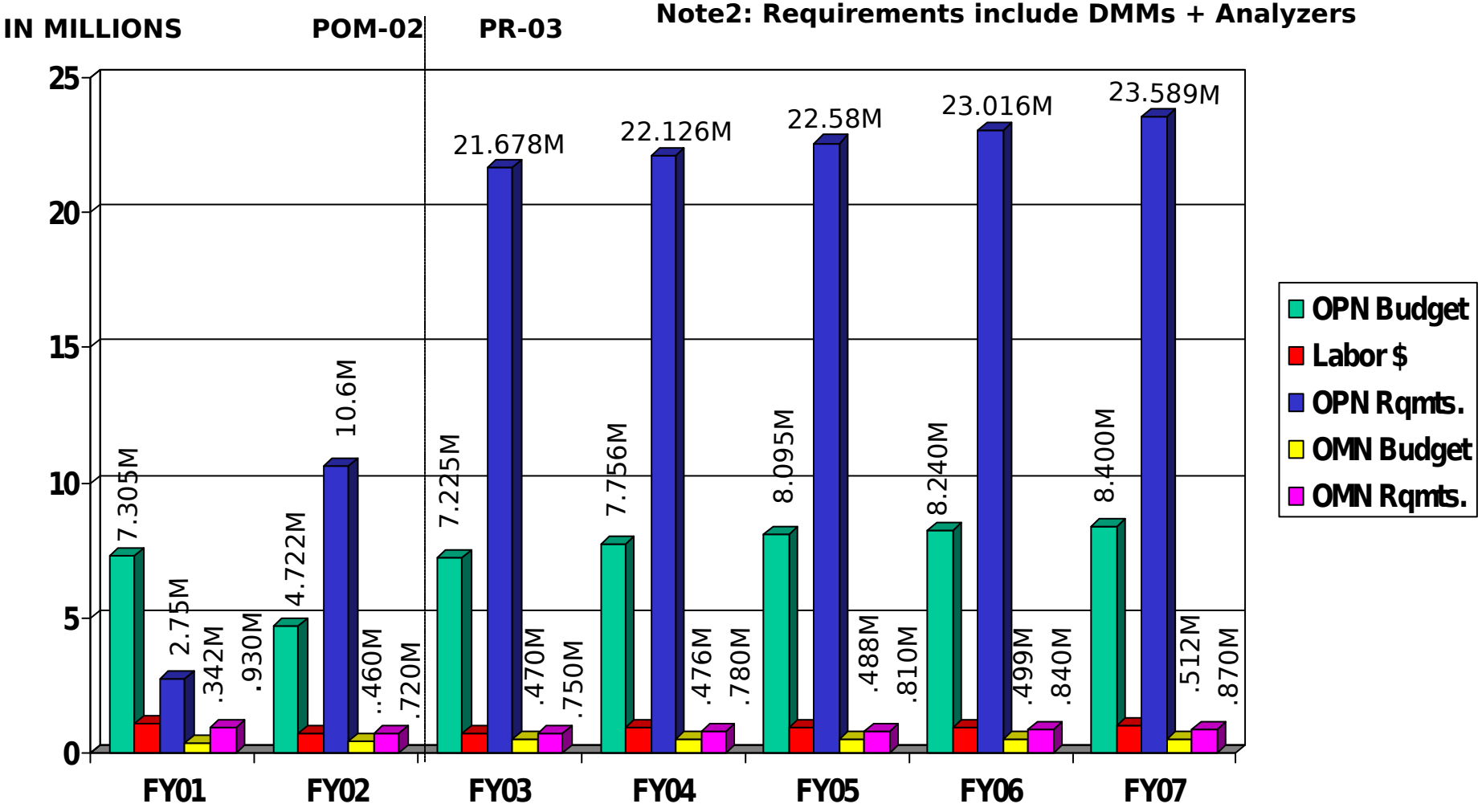
  FY05 Replace Qty 430

500MHz - Inventory 232 (SCAT4314, Model 54825N)

  FY01/02 Replace Qty 232

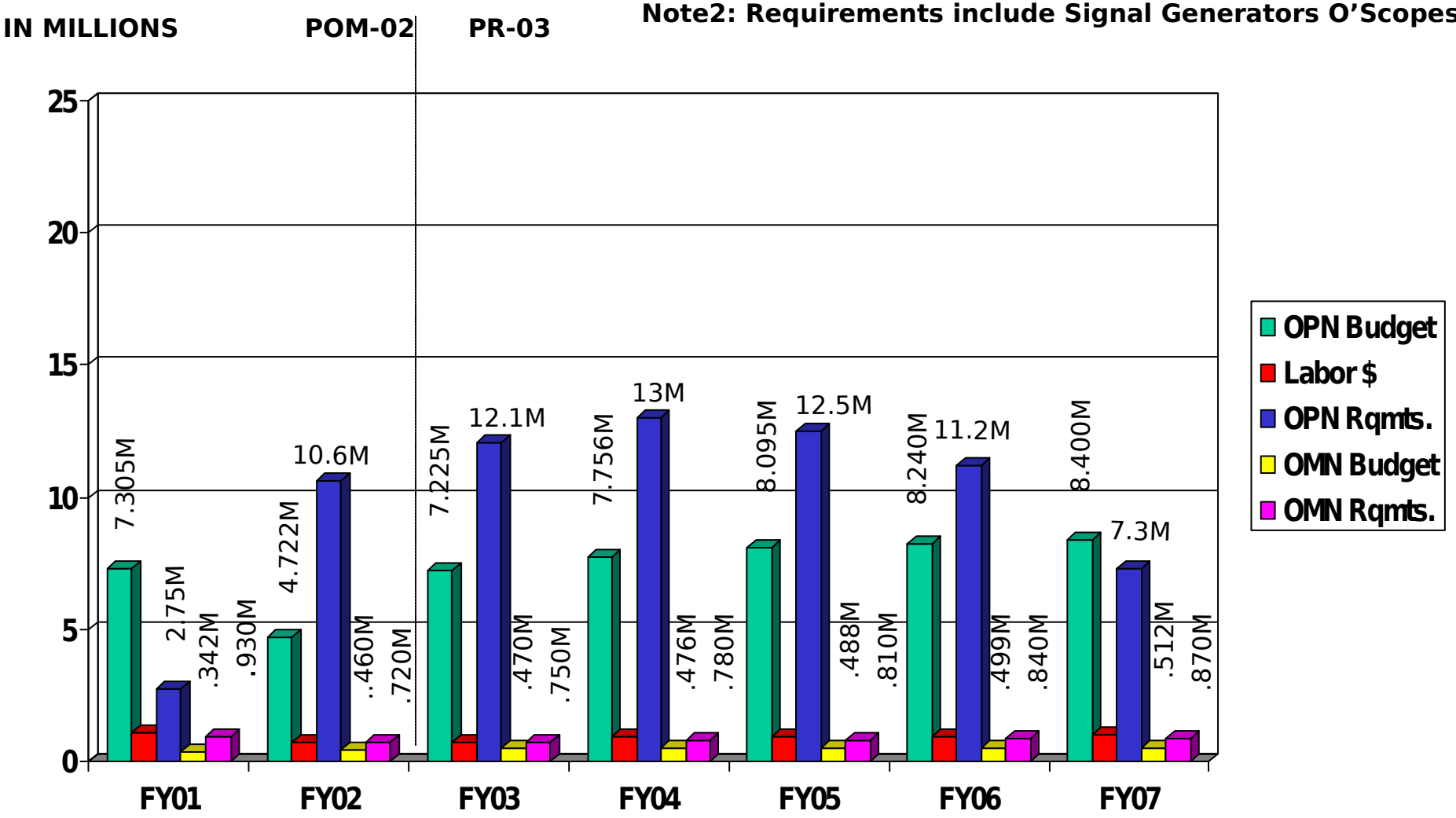
PR-03 GPETE Budget

Note1: Labor = ~12% of budget (FY01-FY07)
Note2: Requirements include DMMs + Analyzers



Same Slide Using POM-02 Number

Note1: Labor averages 12% of budget (FY01-FY07)
Note2: Requirements include Signal Generators O'Scopes



Budget Summary

- **FY-01**: THE FY-01 GPETE OPN CONTROLS TOTAL 7.305M OF WHICH 1.096M (15% OF BUDGET) FUNDS PROCUREMENT ENGINEERING & DOCUMENTATION (LABOR $). FY-01TEST EQUIPMENT REQUIREMENT OBLIGATIONS (BUY-IN) TOTAL 2.75M (37.6% OF BUDGET) BASED ON REQUISITIONS POSTED TO ICP AS OF FEBRUARY 01. FY-O1 OMN CONTROLS TOTAL 342K AND REQUIREMENTS TOTAL 930K (DELTA OF 588K).

- **FY02**: FY-02 GPETE OPN CONTROLS TOTAL 4.722M OF WHICH 723K (15.3% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-02 REQUIREMENTS TOTAL 10.6M (EQUIPMENT DELTA OF 6.601M). OMN CONTROLS TOTAL 460K AND REQUIREMENTS TOTAL 720K (DELTA OF 260K).

- **FY-03**: FY-03 GPETE OPN CONTROLS TOTAL 7.225M OF WHICH 729K (10% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-03 REQUIREMENTS TOTAL 21.678M (EQUIPMENT DELTA OF 14.453M). OMN CONTROLS TOTAL 470K AND REQUIREMENTS TOTAL 750K (DELTA OF 280K).

- **FY-04**: FY-04 GPETE OPN CONTROLS TOTAL 7.756M OF WHICH 912K (11.7% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-04 REQUIREMENTS TOTAL 22.126M (EQUIPMENT DELTA OF 15.282M). OMN CONTROLS 476K AND REQUIREMENTS TOTAL 780K (DELTA OF 304K).

- **FY-05**: FY-05 GPETE OPN CONTROLS TOTAL 8.095M OF WHICH 932K (11.5% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-05 REQUIREMENTS TOTAL 22.58M (EQUIPMENT DELTA OF 15.417M). OMN CONTROLS TOTAL 488K AND REQUIREMENTS TOTAL 810K (DELTA OF 322K).

- **FY-06**: FY-06 GPETE OPN CONTROLS TOTAL 8.240M OF WHICH 941K (11.4% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-06 REQUIREMENTS TOTAL 23.016M (EQUIPMENT DELTA OF 15.717M). OMN CONTROLS TOTAL 499K AND REQUIREMENTS TOTAL 840K (DELTA OF 341K).

- **FY-07**: FY-07 GPETE OPN CONTROLS TOTAL 8.400 OF WHICH 999K (11.9% OF BUDGET) FUNDS PROCUREMENT ENGINEERING AND DOCUMENTATION (LABOR $). FY-07 REQUIREMENTS TOTAL 23.589M (EQUIPMENT DELTA OF 16.188M). OMN CONTROLS TOTAL 512K AND REQUIREMENTS TOTAL 870K (DELTA OF 358K).

PR-03 CREI Summary (FY03-FY07)

Sponsor	Funded (Controls)	Total Requirements	Delta	Total Units	A
N75/76	14.511M	38.421M	23.910M	16,242	45M
N77	6.437M	9.567M	3.130M	2,565	8M
N78	9.906M	18.687M	8.781M	4,792	13M
N4	2.445M	32.178	29.733M	4,600	35M
N6	5.284M	11.165M	5.881M	2,782	9M
N096	2.735M	2.849M	.114M	105	1M
Total	41.318M	113M	71.548M	31,000	111M

TOTAL ASSET VISIBILITY

- Consolidation of CINCLANT assets at ILOLANT
- NAVSEA owned shipyards and Activities load GPETE information into RAM
- Excess equipment is not:
  - awaiting immediate shipboard loading
  - used operationally
  - part of a rotational pool

Calibration Support Status

- ICP Development Status
  - ICP'S are being developed for 48 new model numbers, work is being performed in three phases:
    - Phase I - Completion Date 1 Feb 01 - 16 Items
    - Phase II - Completion Date 1 Aug 01 - 20 items
    - Phase III - Completion Date 30 Sept 01 - 12 items

Status of the Serial Number Tracking (SNT)

- ***We have been reviewing:***
  - Discussed the SNT effort with NAVAIR
  - Reviewed the SNT Policy Statement
  - Developed a Strawman for Cost Estimates for SNT for MAMs
  - Prototype effort on GPETE

STANDARDIZATION INITIATIVE

Oscilloscope Standardization

SCAT	4308 4309	4306 4314 4315	4307 4311 4313 4316
New Standard Model	HP 54645A	HP 54825N	Fluke 199

Current Oscilloscope Proliferation

SCAT	4306	4307	4308	4309	4311	4313	4314	4315	4316
Number of Models	5	8	14	12	6	3	17	4	1

Gathering of Information

Meetings:

- Jan 17, 2001 briefing by Buzz Milan on IT/SNT
- March 19, 2001 Meeting w/ Jim Fitzgibbons on their SNT effort.
- Coordination with NAVAIR to be Scheduled

Benefits of SNT

- This effort will allow us to track where the GPETE is in the cycle.
- It's history will be contained in the Memory Contact Buttons, such as:
  - How often it has been calibrated.
  - Timeline of calibration.
  - Who has ownership.
  - Where it resides.

Where We See SNT's Benefit

SNT

SNAP

MEASURE-21
West Coast
CRIS

CDMD-OA

SPETERA
L

ILO

MOCC

FLEET ASSISTANCE

- Request Fleet assistance:
  - identifying other opportunities where we will save from Standardization.
  - Incorporating model standardization plan
    - Standard deficiency submittal process
    - Support TMDE Budget re-dress process
    - Support optimizing allowances
  - prioritizing criteria for SCAT standardization

PROCESS BENEFITS

- Reductions in calibration, maintenance and repair costs (RCC hours)
- Transportation costs
- Reduction of required deck plate training hours as mitigated by fewer models
- Sailor man hour reductions (MRC card shipboard maintenance)
- Reduced ICP development, Calibration problem reports (CPRs) BSTs, Purchase Descriptions
- Lateral Re-distribution and procurement offsets through redistribution through the use of TAV
- Reductions in model (SCAT) numbers saves on engineering costs: Reduction in serial numbers saves on maintenance costs